

A clean version of the Abstract appears below:

## ABSTRACT

This combustion exhaust gas processing device comprises a dust collector collecting dust in combustion exhaust gas, a wet dust collector collecting water soluble components and dust in the combustion exhaust gas passed through the dust collector, and a catalyst tower decomposing and removing NOx and/or dioxins in the combustion exhaust gas passed through the wet dust collector. The device also comprises a reheater heating the combustion exhaust gas discharged from the wet dust collector at the front stage of the catalyst tower, an oxidizer adding device adding an oxidizer to the combustion exhaust gas passed through the dust collector, a solid/liquid separator separating slurry discharged from the wet dust collector into solid and liquid phases, a mercury adsorbing tower adsorbing mercury in liquid separated in the solid/liquid separator, and a heat recovering device heating the combustion exhaust gas discharged from the catalyst tower at the rear stage thereof.